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PATENT ABSTRACTS OF JAPAN

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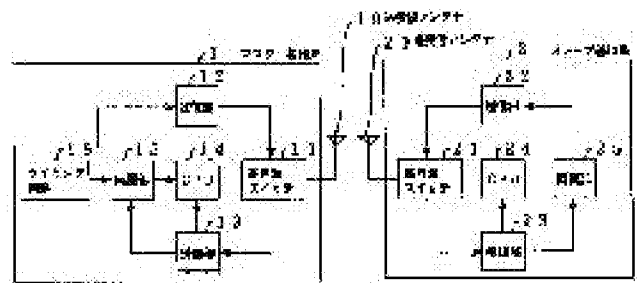
(72)Inventor : **KOTANI GENSAI**

(54) METHOD FOR ESTABLISHING INTER-BASE STATION SYNCHRONIZING TIMING AND TDMA SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To establish synchronization by a slave base station and to reduce the load of a master base station by changing various transmission timing, detecting the range of transmission timing, which can be received in the master base station and setting appropriate transmission timing by the slave base station.

SOLUTION: A slave bases station 2 receives a frame signal from a master base station 1, demodulates it and synchronizes it with the transmission timing of a self-station in a synchronization part 25 so as to set it to an initial timing I. An inter-base station synchronization request signal is transmitted to the master base station 1 with the transmission timing I, timing obtained by advancing I by one clock and timing obtained by delaying I by one clock. The master base station 1 returns a response signal, when it is able to synchronize the signal to the synchronization request signal. The slave base station 2 determines the range of the fastest transmission



timing and the slowest timing, when the response signal is received, to be the timing which can be synchronized, and sets the center value as the optimum transmission timing. Thus, a processing of the master base station can be relaxed.